

AMENDMENT TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Please add claim 21.

Please amend the claims as follows:

Listing of Claims:

1. (Currently amended) An electrodynamic loudspeaker comprising:

a chassis,

a movable body flexibly connected to the chassis and having a three-dimensional diaphragm with a base part and a top part that is wider than the base part, and

an electromagnetic actuator for moving the body with respect to the chassis along a translation axis, which actuator includes:

a stationary actuator part secured to the chassis and located above the diaphragm,

and

a translatable actuator part that extends inside a space defined ~~enveloped~~ by the ~~contours of the diaphragm~~ and is translatable along the translation axis with respect to the stationary actuator part and is connected to the movable body in the region of the base part of the diaphragm,

the stationary and translatable actuator parts magnetically co-operating with each other across an air gap,

wherein

the movable body includes, in the proximity of the base part of the diaphragm,

a bridging element that is secured to the movable part of the actuator and extends radially with respect to the translation axis,

the diaphragm and the bridging element being interconnected at least at a radial distance to the translatable part of the actuator.

2. (Previously presented) The loudspeaker of claim 1, wherein the bridging element functions as a cooling element during operation.
3. (Previously presented) The loudspeaker of claim 1, wherein the bridging element includes a thermally conductive disc-shaped element.
4. (Previously presented) The loudspeaker of claim 1, wherein the stationary actuator part includes a magnetic structure and the translatable actuator part includes a magnetic coil, the magnetic coil extending into the air gap.
5. (Previously presented) The loudspeaker of claim 3, wherein the disc-shaped element includes at least one tuning opening.
6. (Previously presented) The loudspeaker of claim 2, wherein the cooling element includes an anodized cooling surface.
7. (Previously presented) The loudspeaker of claim 1, including

a first flexible connecting means proximate to the top part of the diaphragm and
a second flexible connecting means proximate to the base part of the diaphragm for
movably supporting the translatable body with respect to the chassis, and
wherein:
the first flexible connecting means is fixed to the chassis and the diaphragm, and
the second flexible connecting means is fixed to the chassis and the bridging element.

8. (Previously presented) The loudspeaker of claim 1, including a housing.
9. (Previously presented) The loudspeaker of claim 2, wherein the bridging element includes a thermally conductive disc-shaped element.
10. (Previously presented) The loudspeaker of claim 9, wherein the disc-shaped element is provided with at least one tuning opening.
11. (Currently amended) A loudspeaker comprising:
a chassis,
an actuator that includes a stationary actuator part secured to the chassis and located above the diaphragm, and a translatable actuator part that is configured to move along a translation axis relative to the chassis,
a bridging element that is coupled to the translatable actuator part and extends radially from the translation axis,

a diaphragm that includes:

a top part that is coupled to the chassis, and

a base part that is coupled to the bridging element at a radial distance from the translatable actuator part to provide a diameter of the base part that is significantly larger than a diameter of the translatable actuator part.

12. (Previously presented) The loudspeaker of claim 11, including
a housing that encloses the chassis and diaphragm.

13. (Currently amended) The loudspeaker of claim 11, wherein

the stationary actuator part comprises a magnetic structure ~~chassis includes an~~
~~electromagnet~~, and

the translatable actuator part includes a coil that is configured to move the actuator along the translation axis via an interaction with the magnetic structure ~~electromagnet~~.

14. (Currently amended) The loudspeaker of claim 13, wherein

the coil is located within a gap that separates the magnetic structure ~~electromagnet~~ from the translatable actuator part.

15. (Previously presented) The loudspeaker of claim 11, wherein

the bridging element includes a thermally conductive disc-shaped element.

16. (Previously presented) The loudspeaker of claim 11, wherein
the bridging element includes at least one tuning opening.
17. (Previously presented) The loudspeaker of claim 11, wherein
the bridging element includes an anodized cooling surface.
18. (Previously presented) The loudspeaker of claim 11, wherein
the bridging element is configured to conduct heat from the actuator.
19. (Currently amended) The loudspeaker of claim 11, including
a flexible member that couples the bridging element to the chassis and is configured to
support the bridging element and translatable actuator part relative to the chassis.
20. (Previously presented) The loudspeaker of claim 18, including
a second flexible member that couples the top part of the diaphragm to the chassis.
21. (New) An electrodynamic loudspeaker comprising:
a chassis,
a movable body flexibly connected to the chassis and having a three-dimensional
diaphragm with a base part and a top part that is wider than the base part so that the diaphragm
has a substantially conical shape, and

an electromagnetic actuator for moving the body with respect to the chassis along a translation axis, which actuator includes:

a stationary actuator part secured to the chassis on an inwardly conical side of the diaphragm, and

a translatable actuator part that extends inside a space defined by the diaphragm and is translatable along the translation axis with respect to the stationary actuator part and is connected to the movable body in the region of the base part of the diaphragm,

the stationary and translatable actuator parts magnetically co-operating with each other across an air gap,

wherein

the movable body includes, in the proximity of the base part of the diaphragm,

a bridging element that is secured to the movable part of the actuator and extends radially with respect to the translation axis,

the diaphragm and the bridging element being interconnected at least at a radial distance to the translatable part of the actuator.